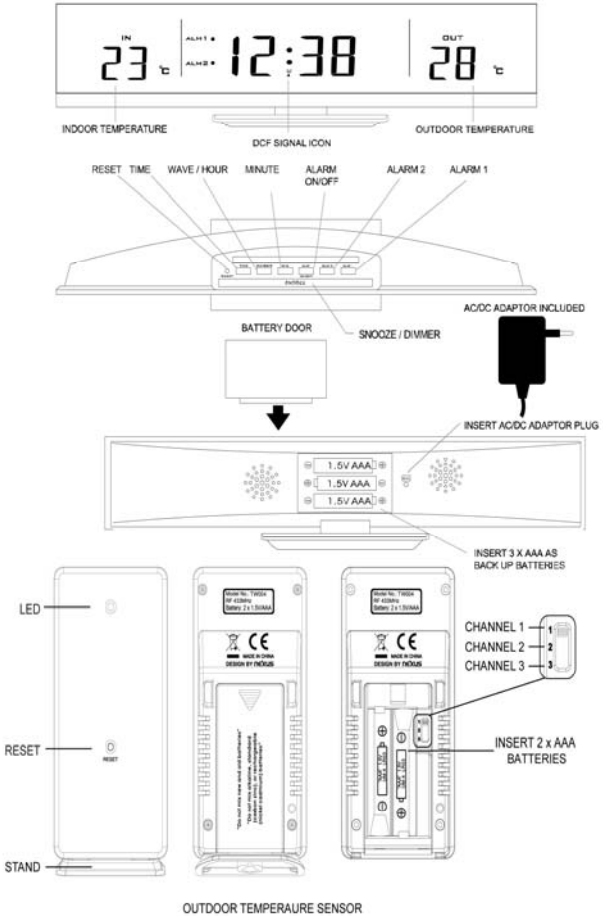
WS6810 - INSTRUCTION MANUAL

LED TEMPERATURE STATION WITH RADIO CONTROLLED CLOCK AND ALARM



ENVIRONMENTAL RECEPTION EFFECTS

The temperature station obtains the accurate time with wireless technology. Same as all wireless devices, the reception is maybe affected by the following circumstances:

- Long transmitting distance
- Nearby mountains and valleys
- Among tall buildings
- Near freeway, railway, airports, high voltage cable etc.
- Near construction site
- Inside concrete buildings
- Near electrical appliances (computers, TV's, etc)
- Inside moving vehicles
- Near metallic structures

Place the station at a location with optimal signal, i.e. close to a window and away from metal surfaces or electrical appliances.

QUICK SETUP

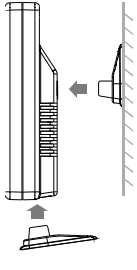
Step 1 Keep the station and outdoor sensor next to each other. Slide opens the battery cover at the back of the outdoor sensor. Make sure the channel selector is set at position 1 (top position), then insert 2 x AAA batteries (not included) into the outdoor sensor by observing the correct "+/-" polarity signs inside the battery compartment. Replace the battery cover. Only one sensor is receivable by the station.

Step 2 Insert the AC/DC adaptor to any 230V AC household outlet. Then insert the DC jack to the back case of the station.

Step 3 Slide open the battery cover at the back of the station. Insert 2 x AAA batteries (not included) into the outdoor sensor by observing the correct "+/-" polarity signs inside the battery compartment. Replace the battery cover.

Step 4 Peel off the protective label on the front. The temperature station is ready to work for you.

The station will receive data signal from the outdoor sensor in few seconds. Then place the outdoor sensor in a dry and shaded area outdoor.



Insert the holder to the bottom of the outdoor transmitter for desktop or insert it to the back of the transmitter for wall mount purpose.

BACK-UP BATTERIES

When the power supply is not in use, the station will be powered by the back-up batteries. The LED display is turned off, but time and alarm time remain stored (also in the event of a power failure).

DCF SIGNAL RECEPTION AND SIGNAL INDICATOR

After the station is powered up, it starts to receive DCF signal. The icon flashes.

Receiving DCF signal	(Icon flashing)
Successful reception	(Icon becomes static)
Failed reception	(Icon disappear)

During reception, press the **WAVE / HR** button will display reception mode and signal strength indication:
When strong DCF signal is detected, display shows with 3 bars
When weak or no DCF signal is detected, display shows or .
During reception, the signal strength may move from 1 bar to 2 bars to 3 bars. This is normal since the clock is detecting DCF signal and other signals in the air at the same time. Press the **TIME** button will return to the time display with icon flashing.

Successful reception or failed reception

Icon becomes static on (stop blinking) when reception is successful.
Icon disappears when reception is failed.

Automatic reception and manual reception
The station starts automatic reception everyday at 1:00, 2:00, and 3:00. If it fails to receive the DCF signal at 3:00, it will start reception at 4:00. If it fails again, it will start reception at 5:00. If it fails again, it will start automatic reception at 1:00 again in the next day.

For manual reception simply press and hold the **WAVE / HR** button, the station starts manual reception.

During RCC reception, it does not take temperature measurement. It will change to low brightness and will resume to high brightness after auto reception. The temperature readings will get stable and become more accurate after your weather station clock is powered up for around 30 minutes.

TIME SETTING

1. Press and hold **TIME** button and at the same time press **WAVE / HR** button once at a time to set the hour.
2. Press and hold **TIME** button and at the same time press **MINUTE** button once at a time to set the minute.
3. Press **TIME** and **SNOOZE** button together, time display changes to **01**. Release **SNOOZE** button and keep pressing **TIME** button. Then press **MINUTE** button to set the time zone:

   "00" GMT +0 (United Kingdom)
   "01" GMT +1 (Central European time)
   "02" GMT +2 (Eastern European time)

Note: The time is displayed in 24-hour display format.

ALARM SETTING

Press and hold **ALM 1** button and at the same time press **WAVE / HR** button once at a time to set hour or press **MINUTE** button once at a time to set minute.

Press and hold **ALM 2** button and at the same time press **WAVE / HR** button once at a time to set hour or press **MINUTE** button once at a time to set minute.

To turn on or off the alarm
To turn on Alarm 1 only, press **ALM** button. The **ALM 1** LED lights up on the display.
To turn on Alarm 2 only, press **ALM** button again. The **ALM 2** LED lights up on the display.
To turn on both alarms, press **ALM** button again. The **ALM 1** and **ALM 2** LEDs lights up on the display.
To in-activate both alarms permanently, press **ALM** button again. The **ALM 1** and **ALM 2** LEDs turn off.

Note: Alarm duration is 5 minutes.

To use the snooze function
When time reaches the set alarm time, the station will give a beep sound to wake you up. The **ALM 1** or **ALM 2** LED will flash.
1. Press **SNOOZE** once to stop the alarm temporarily**, ALM 1**or **ALM 2** LED keeps flashing. The alarm will beep again after the set snooze duration.
2. To stop the daily alarm, press **ALM 1** or **ALM 2** button when alarm is beeping. The alarm will stop and **ALM 1** or **ALM 2** LED becomes static. The alarm will beep again same time next day.

To set snooze duration (from 5 to 60 min)
Press and hold **SNOOZE** and time display will show **05** (default snooze duration) and then press **MIN** button to set your desired snooze duration.

DIMMER FUNCTION

Press the **SNOOZE** button to adjust high or low brightness of the LED display.

TROUBLE SHOOTING

In case the station shows false digits, it maybe affected by electrostatic discharge or interferences from other devices. Press the **RESET** button of the station. The station will be reset to default setting of time and calendar and it will start to receive radio controlled time signal again.

If you lose the outdoor temperature
When the outdoor temperature digits show "--", the wireless transmission is either interrupted or lost. Press the **RESET** button of the transmitter. If you continue to lose the outdoor temperature display, try placing the transmitter in a different location until you have smooth transmission of temperature data.

Note: Keep in mind that the outdoor transmitter only has a 30 meter transmission range in open area with no obstructions. Each obstruction between the transmitter and the station (roof, walls, floors, ceilings, thick trees, etc.) will effectively cut the transmission range in half.

CARE OF THIS ITEM

- Do not expose the unit to extreme temperature, water or direct sunlight.
- Avoid contact with any corrosive materials.
- Do not subject the unit to excessive force, dust or humidity.
- Do not open the inner back case or tamper with any components of this unit.

SPECIFICATIONS

Operation temperature:	0°C to + 45°C
Temperature measuring range:	
Indoor:	°C to +45°C (display shows HH.H / LL.L if out of this range)
Outdoor:	-40°C to + 70°C (display shows HH.H / LL.L if out of this range)
Temperature resolution:	1°C
Alarm duration:	5 minutes
Snooze duration:	5 to 60 minutes

Consideration of duty according to the battery law

Old batteries do not belong to domestic waste because they could cause damages of health and environment. You can return used batteries free of charge to your dealer and collection points. As end-user you are committed by law to bring back needed batteries to distributors and other collecting points!